

CLAIM

1. A structural member characterized in that a water-repellent structure which is constituted by appropriate irregularities of protrusion portions and recess portions and which is uniform in height of said protrusion portions is formed on an external surface of said structural member.
2. A structural member according to Claim 1, characterized in that each of said recess portions has a depth not less than a predetermined depth.
3. A structural member according to Claim 1, characterized in that said irregularities have such dimensions that any droplet hardly falls in any of said recess portions and each droplet comes into contact with an air layer in each of said recess portions.
4. A structural member according to Claim 1, characterized in that a water-repellent film reactively bonded with said irregularities of said water-repellent structure is formed on said irregularities.
5. A structural member according to Claim 1, characterized in that said water-repellent structure is constituted by forming irregularities on a base material having a water-repellent function.
6. A structural member according to Claim 1, characterized in that said irregularities comprises the protrusion portions arranged in distribution, in lines, or in a lattice.
7. A wire characterized in that a jacket of said wire is constituted by a

structural member according to Claim 1.

8. A building material characterized in that a surface of said building material is constituted by a structural member according to Claim 1.

9. A ship member characterized in that a surface of said ship member is constituted by a structural member according to Claim 1.

10. An antenna characterized in that a surface of said antenna is constituted by a structural member according to Claim 1.

11. An air-craft member characterized in that a surface of said air-craft member is constituted by a structural member according to Claim 1.

12. A method for manufacturing a structural member according to Claim 1, characterized in that said irregularities of said water-repellent structure is formed by a mold having a shape corresponding to said irregularities.

13. A method for manufacturing a structural member according to Claim 12, characterized in that a roller having an outer circumferential portion in which said shape corresponding to said irregularities of said water-repellent structure is formed is pressed onto a surface of a base material of said water-repellent structure.

14. A method for manufacturing a structural member according to Claim 12, characterized in that a base material of said water-repellent structure which has not been solidified yet is passed through a die having an inner circumferential portion in which said shape corresponding to said irregularities of said water-

repellent structure is formed.

15. A method for manufacturing a structural member according to Claim 1, characterized in that said water-repellent structure is manufactured by use of a photolithography method and an etching method.

16. A method for manufacturing a structural member according to Claim 15, characterized in that said etching method is a trench dry etching method.

17. A method for manufacturing a structural member according to Claim 15, characterized in that said etching method is an anodic electrolysis method.

18. A method for manufacturing a structural member according to Claim 15, characterized in that said etching method is an anisotropic wet etching method.

19. A method for manufacturing a structural member according to Claim 15, characterized in that said etching method is an isotropic wet etching method.

20. A method for manufacturing a structural member according to Claim 15, characterized in that said etching method is an isotropic dry etching method.